Planning and Migration to strict mode

Let's make strict choices



About me

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We have a Nx monorepo with 188 projects and growing.





The total codebase is 2M lines of code and growing







Till Aug 2023 we had strict flags disabled for all projects.









We kept getting bugs which we could have captured if strict mode was enabled.







We wanted to fix this issue, but how?







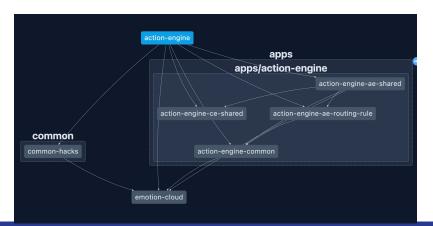
We enabled strict flags for one app and all builds

started failing





We realized we cannot enable strict mode for apps till we fix libraries. We pulled Nx graph and found libs impacting all apps.







We enabled it for our shared lib and it was taking too much time and many errors to fix, it was breaking our apps too.







It was time to break the task into smaller chunks.

















After failing multiple times, and learning we had, we decided to split migration in 3 parts.









```
"angularCompilerOptions": {
    "strictInjectionParameters": true,
    "strictInputAccessModifiers": true,
    "strictTemplates": false --> true
}
```





```
"compilerOptions": {
    "strict": false, --> true
    "strictPropertyInitialization": true, --> false
},
"angularCompilerOptions": {
    "strictNullInputTypes": true, --> false
    "strictTemplates": true
}
```





```
"compilerOptions": {
    "strict": true,
    "strictPropertyInitialization": false, --> true
},
"angularCompilerOptions": {
    "strictNullInputTypes": false, --> true
    "strictTemplates": true
}
```





We wanted to share how to do it with everyone, so we created a design doc









Convincing management







Data from observability platform













- We started migrating our shared libs to strict mode, so we can unblock apps.
- After moving our shared libs to strict mode, we updated our generators to enable strict mode by default for new libs and apps.
- Add tsconfig.editor.json with strict config to all apps and libs



96 projects on "strictTemplate"= true

88 project using "strict"=true

Thanks to my GitHub Sponsors

- Cometa.rocks
- Sunil
- <u>Darshan</u>
- <u>Umair</u>
- Anand

https://github.com/angular/angular/issues/35293

https://www.youtube.com/c/TechTalksWithSantosh

Angular Getting Started Course
On FreeCodeCamp
17 hrs of content free for community





Thank you

